

Amendments to the Abstract:

The invention relates to a method in which the information contents of an image of a moving object is enhanced. The invention also relates to a system in which such a method can be carried out and to a computer program enabling a data processing unit to carry out such a method. The method is used notably in the field of medical imaging systems.

According to the method first a A first image of a moving object is acquired by means of a first imaging method, said e.g. by PET or SPECT imaging. The first image containing contains artifacts which are caused by the object motion. From two further images, images acquired by means of a second imaging method, e.g. C.T or M.R., and representing the object in [[a]] respective states of motion of the motion, there is formed a motion model is formed, which is implemented in a different manner in image processing or image forming steps, so that the The information contents of either the first image or a combination image, formed from the first image and the two further images, and the motion model is enhanced.

Fig. 1

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